

**Translation**

**PATENT COOPERATION TREATY**

**PCT**

**INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY**

(Chapter II of the Patent Cooperation Treaty)

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference <b>PCT-016-2004</b>	<b>FOR FURTHER ACTION</b>	See Form PCT/IPEA/416
International application No. <b>PCT/JP2004/007498</b>	International filing date (day/month/year) <b>31.05.2004</b>	Priority date (day/month/year) <b>13.06.2003</b>
International Patent Classification (IPC) or national classification and IPC		
Applicant <b>SUMITOMO WIRING SYSTEMS, LTD.</b>		

1.	This report is the international preliminary examination report, established by this International Preliminary Examining Authority under Article 35 and transmitted to the applicant according to Article 36.	
2.	This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.	
3.	This report is also accompanied by ANNEXES, comprising: a. <input checked="" type="checkbox"/> (sent to the applicant and to the International Bureau) a total of <u>1</u> sheets, as follows: <input checked="" type="checkbox"/> sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications authorized by this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions). <input type="checkbox"/> sheets which supersede earlier sheets, but which this Authority considers contain an amendment that goes beyond the disclosure in the international application as filed, as indicated in item 4 of Box No. I and the Supplemental Box. b. <input type="checkbox"/> (sent to the International Bureau only) a total of (indicate type and number of electronic carrier(s))  _____, containing a sequence listing and/or tables related thereto, in computer readable form only, as indicated in the Supplemental Box Relating to Sequence Listing (see Section 802 of the Administrative Instructions).	
4.	This report contains indications relating to the following items: <input checked="" type="checkbox"/> Box No. I Basis of the report <input type="checkbox"/> Box No. II Priority <input type="checkbox"/> Box No. III Non-establishment of opinion with regard to novelty, inventive step and industrial applicability <input type="checkbox"/> Box No. IV Lack of unity of invention <input checked="" type="checkbox"/> Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement <input type="checkbox"/> Box No. VI Certain documents cited <input type="checkbox"/> Box No. VII Certain defects in the international application <input type="checkbox"/> Box No. VIII Certain observations on the international application	

Date of submission of the demand	Date of completion of this report
Name and mailing address of the IPEA/JP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/007498

Box No. I Basis of the report

1. With regard to the language, this report is based on the international application in the language in which it was filed, unless otherwise indicated under this item.

☐ This report is based on translations from the original language into the following language \_\_\_\_\_ which is the language of a translation furnished for the purposes of:

- ☐ international search (Rule 12.3 and 23.1(b))  
☐ publication of the international application (Rule 12.4)  
☐ international preliminary examination (Rule 55.2 and/or 55.3)

2. With regard to the elements of the international application, this report is based on (*replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 are referred to in this report as "originally filed" and are not annexed to this report*):

☐ the international application as originally filed/furnished

☒ the description:

pages 1-13 as originally filed/furnished

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

pages\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☒ the claims:

nos. 2-5 as originally filed/furnished

nos.\* \_\_\_\_\_ as amended (together with any statement) under Article 19

nos.\* 1 received by this Authority on 22.04.2005

nos.\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☒ the drawings:

sheets fig. 1-13 as originally filed/furnished

sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

sheets\* \_\_\_\_\_ received by this Authority on \_\_\_\_\_

☐ a sequence listing and/or any related table(s) – see Supplemental Box Relating to Sequence Listing.

3. ☐ The amendments have resulted in the cancellation of:

☐ the description, pages \_\_\_\_\_

☐ the claims, nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

4. ☐ This report has been established as if (some of) the amendments annexed to this report and listed below had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).

☐ the description, pages \_\_\_\_\_

☐ the claims, nos. \_\_\_\_\_

☐ the drawings, sheets/figs \_\_\_\_\_

☐ the sequence listing (*specify*): \_\_\_\_\_

☐ any table(s) related to sequence listing (*specify*): \_\_\_\_\_

\* If item 4 applies, some or all of those sheets may be marked "superseded."

## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

International application No.

PCT/JP2004/007498

**Box No. V** Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims 1-5	YES
	Claims	NO
Inventive step (IS)	Claims	YES
	Claims 1-5	NO
Industrial applicability (IA)	Claims 1-5	YES
	Claims	NO

## 2. Citations and explanations (Rule 70.7)

Document 1: US 5761050 A (Ian ARCHER), 02 June 1998

Document 2: JP 3-263771 A (Fujitsu Ltd.), 25 November 1991

Document 3: Microfilm of the specification and drawings annexed to the request of Japanese Utility-Model Application No. 98348/1988 (Laid-open No. 20368/1990) (Taiyo Yuden Co., Ltd.), 09 February 1990

Document 4: JP 8-195568 A (Nippondenso Co., Ltd.), 30 July 1996

## Claims 1 to 3

The inventions set forth in claims 1 to 3 do not involve an inventive step in the light of document 1 or 2 and document 3.

Documents 1 and 2 both disclose the feature of configuring so that the connection terminals for connecting the respective conductors on two printed circuit boards are press-fit terminals that do not require soldering. In addition, document 3 (page 5 and fig. 1) discloses the feature of configuring the connection terminals for connecting the respective conductors on two printed circuit boards by providing a

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Box No. V Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability;  
citations and explanations supporting such statement

support section between a first vertical part and a second vertical part.

The technical features that are disclosed in the abovementioned documents all pertain to connection terminals for connecting the respective conductors of a plurality of circuit boards that have been disposed in parallel. Therefore, it would have been easy for a person skilled in the art to conceive of reaping the benefits of the press-fit terminals that do not require soldering, which are disclosed in documents 1 and 2, while also employing the forms of the connection terminals that are disclosed in document 3. Furthermore, the question of whether or not the support section has a flat form that extends in a direction parallel to the printed board and/or the bus bar is merely a design matter that could have been configured with consideration of the scope of the support function thereof; therefore, the configuration in question cannot be considered to involve an inventive step.

#### Claim 4

Documents 1 to 3 do not disclose a configuration wherein a notch part for allowing the insertion of the first vertical part of the press-fit terminal is formed in the printed board that has been provided on the bottom.

However, notches for preventing the interference of parts such as these are commonly used in various industrial products; therefore, the employment of the feature in question cannot be considered to involve an inventive step.

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## INTERNATIONAL PRELIMINARY REPORT ON PATENTABILITY

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## Claim 5

Document 4 discloses a configuration wherein the printed boards and the like are supported on the interior of a box. Therein, document 4 also indicates that the technical feature of supporting printed boards or the like by means of tiered sections or ribs that have been provided on the interior of a box is not a novel feature in and of itself; therefore, the employment of such a support structure cannot be considered to involve an inventive step.

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